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(FILE 'HOME' ENTERED AT 19:13:02 ON 06 JUL 2008)

L1 FILE 'REGISTRY' ENTERED AT 19:13:08 ON 06 JUL 2008  
STRUCTURE UPLOADED

L2 D  
L3 7 SEA SSS SAM L1  
L4 411 SEA SSS FUL L1  
ANALYZE PLU=ON L3 1- LC : 13 TERMS  
D

L5 FILE 'ZCAPLUS' ENTERED AT 19:14:25 ON 06 JUL 2008  
38 SEA ABB=ON PLU=ON L3  
L6 17 SEA ABB=ON PLU=ON L5 AND (PD<=20000425 OR PRD<=20000425)  
D L6 1-17 IBIB HITSTR

L7 FILE 'REGISTRY' ENTERED AT 19:19:04 ON 06 JUL 2008  
STRUCTURE UPLOADED

FILE 'HOME' ENTERED AT 19:19:34 ON 06 JUL 2008

L8 FILE 'REGISTRY' ENTERED AT 19:19:38 ON 06 JUL 2008  
218 SEA SUB=L3 SSS FUL L7

L9 FILE 'ZCAPLUS' ENTERED AT 19:20:02 ON 06 JUL 2008  
14 SEA ABB=ON PLU=ON L8 AND L6

L10 FILE 'REGISTRY' ENTERED AT 19:21:54 ON 06 JUL 2008  
STRUCTURE UPLOADED  
L11 112 SEA SUB=L8 SSS FUL L10

L12 FILE 'ZCAPLUS' ENTERED AT 19:23:07 ON 06 JUL 2008  
13 SEA ABB=ON PLU=ON L11 AND L9  
D L12 1-13 IBIB HITSTR

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 4 JUL 2008 HIGHEST RN 1032821-09-2  
DICTIONARY FILE UPDATES: 4 JUL 2008 HIGHEST RN 1032821-09-2

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

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# FILE ZCAPLUS

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FILE COVERS 1907 - 6 Jul 2008 VOL 149 ISS 2

FILE LAST UPDATED: 4 Jul 2008 (20080704/ED)

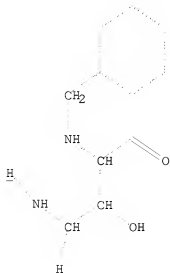
ZCAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L1 STR



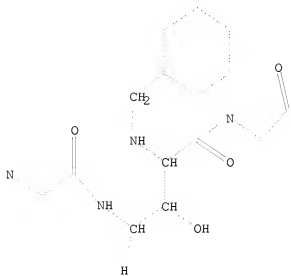
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L3 411 SEA FILE=REGISTRY SSS FUL L1

L5 38 SEA FILE=ZCAPLUS ABB=ON PLU=ON L3

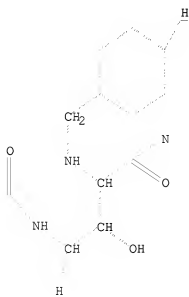
L6 17 SEA FILE=ZCAPLUS ABB=ON PLU=ON L5 AND (PD<=20000425 OR

L7 PRD<=20000425)  
STR



Structure attributes must be viewed using STN Express query preparation.

L8 218 SEA FILE=REGISTRY SUB=L3 SSS FUL L7  
L9 14 SEA FILE=ZCAPLUS ABB=ON PLU=ON L8 AND L6  
L10 STR



Structure attributes must be viewed using STN Express query preparation.

L11 112 SEA FILE=REGISTRY SUB=L8 SSS FUL L10

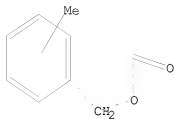
L12

13 SEA FILE=ZCAPLUS ABB=ON PLU=ON L11 AND L9

=&gt; d que sta

L13

STR



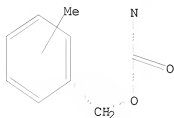
Structure attributes must be viewed using STN Express query preparation.

L14

7758 SEA FILE=REGISTRY SSS FUL L13

L22

STR



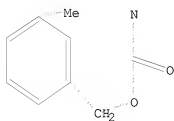
Structure attributes must be viewed using STN Express query preparation.

L23

890 SEA FILE=REGISTRY SUB=L14 SSS FUL L22

L26

STR



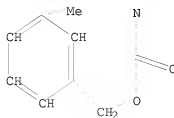
Structure attributes must be viewed using STN Express query preparation.

L27

459 SEA FILE=REGISTRY SUB=L23 SSS FUL L26

L28

STR



Structure attributes must be viewed using STN Express query preparation.

L29 99 SEA FILE=REGISTRY SUB=L27 SSS FUL L28  
 L30 44 SEA FILE=ZCAPLUS ABB=ON PLU=ON L29  
 L31 14 SEA FILE=ZCAPLUS ABB=ON PLU=ON L30 AND PD<=20000425

=> d his ful

(FILE 'HOME' ENTERED AT 19:13:02 ON 06 JUL 2008)

FILE 'REGISTRY' ENTERED AT 19:13:08 ON 06 JUL 2008

L1 STRUCTURE UPLOADED  
 D  
 L2 7 SEA SSS SAM L1  
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 L4 ANALYZE PLU=ON L3 1- LC : 13 TERMS  
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FILE 'ZCAPLUS' ENTERED AT 19:14:25 ON 06 JUL 2008

L5 38 SEA ABB=ON PLU=ON L3  
 L6 17 SEA ABB=ON PLU=ON L5 AND (PD<=20000425 OR PRD<=20000425)  
 D L6 1-17 IBIB HITSTR

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L7 STRUCTURE UPLOADED

FILE 'HOME' ENTERED AT 19:19:34 ON 06 JUL 2008

FILE 'REGISTRY' ENTERED AT 19:19:38 ON 06 JUL 2008

L8 218 SEA SUB=L3 SSS FUL L7

FILE 'ZCAPLUS' ENTERED AT 19:20:02 ON 06 JUL 2008

L9 14 SEA ABB=ON PLU=ON L8 AND L6

FILE 'REGISTRY' ENTERED AT 19:21:54 ON 06 JUL 2008

L10 STRUCTURE UPLOADED  
 L11 112 SEA SUB=L8 SSS FUL L10

FILE 'ZCAPLUS' ENTERED AT 19:23:07 ON 06 JUL 2008

L12 13 SEA ABB=ON PLU=ON L11 AND L9  
 D L12 1-13 IBIB HITSTR  
 D QUE STA

FILE 'STNGUIDE' ENTERED AT 19:30:38 ON 06 JUL 2008

FILE 'ZCAPLUS' ENTERED AT 19:38:34 ON 06 JUL 2008

SAVE L12 A7608/A  
 D SAVE  
 L13 STRUCTURE UPLOADED  
 D  
 S L13

FILE 'REGISTRY' ENTERED AT 20:15:54 ON 06 JUL 2008

L14 7758 SEA SSS FUL L13

FILE 'ZCAPLUS' ENTERED AT 20:15:58 ON 06 JUL 2008

L15 4761 SEA ABB=ON PLU=ON L14  
L16 4761 SEA ABB=ON PLU=ON L14  
L17 4761 SEA ABB=ON PLU=ON L14

FILE 'REGISTRY' ENTERED AT 20:16:38 ON 06 JUL 2008  
L18 2 SEA SUB=L11 SSS FUL L13  
D L18 1- SQIDE  
D L18 1-2 ED  
L19 61 SEA ABB=ON PLU=ON L15 AND SQL<=5

FILE 'ZCAPLUS' ENTERED AT 20:18:32 ON 06 JUL 2008  
L20 24 SEA ABB=ON PLU=ON L19  
L21 22 SEA ABB=ON PLU=ON L20 AND PD<20000425  
D L21 20-22 IBIB HITSTR

FILE 'REGISTRY' ENTERED AT 20:20:03 ON 06 JUL 2008  
L22 STRUCTURE UPLOADED  
D  
L23 890 SEA SUB=L14 SSS FUL L22

FILE 'ZCAPLUS' ENTERED AT 20:22:05 ON 06 JUL 2008  
L24 268 SEA ABB=ON PLU=ON L23  
L25 0 SEA ABB=ON PLU=ON L24 AND L21  
D L24 265-268  
D L24 265-268 HITSTR

FILE 'REGISTRY' ENTERED AT 20:24:01 ON 06 JUL 2008  
L26 STRUCTURE UPLOADED  
D  
L27 459 SEA SUB=L23 SSS FUL L26  
L28 STRUCTURE UPLOADED  
D  
L29 99 SEA SUB=L27 SSS FUL L28

FILE 'ZCAPLUS' ENTERED AT 20:27:37 ON 06 JUL 2008  
L30 44 SEA ABB=ON PLU=ON L29  
L31 14 SEA ABB=ON PLU=ON L30 AND PD<=20000425  
D L31 1-14 IBIB HITSTR  
D QUE STA

FILE HOME

FILE REGISTRY

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#### FILE ZCAPLUS

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FILE COVERS 1907 - 6 Jul 2008 VOL 149 ISS 2

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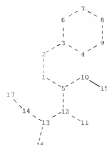
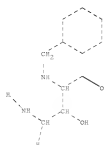
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This file contains CAS Registry Numbers for easy and accurate substance identification.

#### FILE STNGUIDE

FILE CONTAINS CURRENT INFORMATION.

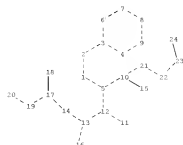
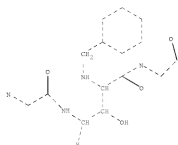
LAST RELOADED: Jul 4, 2008 (20080704/UP).



```

chain nodes :
  1  2  5 10 11 12 13 14 15 16 17
ring nodes :
  3  4  6  7  8  9
chain bonds :
  1-2  1-5  2-3  5-10  5-12  10-15  11-12  12-13  13-14  13-16  14-17
ring bonds :
  3-4  3-6  4-9  6-7  7-8  8-9
exact/norm bonds :
  1-2  1-5  2-3  3-4  3-6  4-9  5-10  5-12  6-7  7-8  8-9  10-15  11-12  12-13  13-14  13-16
  14-17

Match level :
  1:CLASS  2:CLASS  3:Atom  4:Atom  5:CLASS  6:Atom  7:Atom  8:Atom  9:Atom 10:CLASS 11:CLASS
 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS
  
```

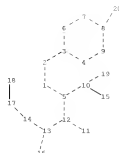
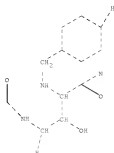


```

chain nodes :
  1  2  5 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ring nodes :
  3  4  6  7  8  9
chain bonds :
  1-2 1-5 2-3 5-10 5-12 10-15 10-21 11-12 12-13 13-14 13-16 14-17 17-18 17-19 19-20
  21-22 22-23 23-24
ring bonds :
  3-4 3-6 4-9 6-7 7-8 8-9
exact/norm bonds :
  1-2 1-5 2-3 3-4 3-6 4-9 5-10 5-12 6-7 7-8 8-9 10-15 10-21 11-12 12-13 13-14
  13-16 14-17 17-18 17-19 19-20 21-22 22-23 23-24
  
```

```

Match level :
  1:CLASS 2:CLASS 3:Atom 4:Atom 5:CLASS 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 11:CLASS
  12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS
  21:CLASS 22:CLASS 23:CLASS 24:CLASS
  
```



chain nodes :

1 2 5 10 11 12 13 14 15 16 17 18 19 20

ring nodes :

3 4 6 7 8 9

chain bonds :

1-2 1-5 2-3 5-10 5-12 8-20 10-15 10-19 11-12 12-13 13-14 13-16 14-17 17-18

ring bonds :

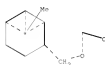
3-4 3-6 4-9 6-7 7-8 8-9

exact/norm bonds :

1-2 1-5 2-3 3-4 3-6 4-9 5-10 5-12 6-7 7-8 8-9 8-20 10-15 10-19 11-12 12-13  
13-14 13-16 14-17 17-18

Match level :

1:CLASS 2:CLASS 3:Atom 4:Atom 5:CLASS 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 11:CLASS  
12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS



chain nodes :

7 9 10 11 12

ring nodes :

1 2 3 4 5 6

chain bonds :

6-9 9-10 10-11 11-12

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

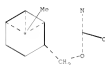
6-9 9-10 10-11 11-12

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:CLASS 10:CLASS 11:CLASS  
12:CLASS



chain nodes :  
7 9 10 11 12 13

ring nodes :  
1 2 3 4 5 6

chain bonds :  
6-9 9-10 10-11 11-12 11-13

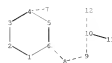
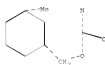
ring bonds :  
1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :  
6-9 9-10 10-11 11-12 11-13

normalized bonds :  
1-2 1-6 2-3 3-4 4-5 5-6

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:CLASS 10:CLASS 11:CLASS  
12:CLASS 13:CLASS



```

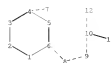
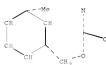
chain nodes :
  7  8  9 10 11 12
ring nodes :
  1  2  3  4  5  6
chain bonds :
  4-7  6-8  8-9  9-10 10-11 10-12
ring bonds :
  1-2  1-6  2-3  3-4  4-5  5-6
exact/norm bonds :
  4-7  6-8  8-9  9-10 10-11 10-12
normalized bonds :
  1-2  1-6  2-3  3-4  4-5  5-6

```

```

Match level :
  1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:CLASS  8:CLASS  9:CLASS 10:CLASS 11:CLASS
 12:CLASS

```



```

chain nodes :
  7  8  9 10 11 12
ring nodes :
  1  2  3  4  5  6
chain bonds :
  4-7  6-8  8-9  9-10 10-11 10-12
ring bonds :
  1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
  4-7  6-8  8-9  9-10 10-11 10-12
normalized bonds :
  1-2 1-6 2-3 3-4 4-5 5-6

```

```

Match level :
  1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS
  12:CLASS

```